

PUBLIC VERSION

This Set of Exhibits Contains No Business Confidential Information

**BEFORE
THE OFFICE OF THE UNITED STATES TRADE REPRESENTATIVE
WASHINGTON, D.C.**

IN THE MATTER OF STEEL

)
) **SECTION 201 INVESTIGATION**
)

**EXHIBITS
TO
COMMENTS ON BEHALF OF THE AWWPA
TO EXCLUSION REQUESTS FOR
STAINLESS STEEL WIRE**

Frederick P. Waite
Kimberly R. Young

HOLLAND & KNIGHT LLP
Suite 100
2099 Pennsylvania Avenue, N.W.
Washington, D.C. 20006
Telephone: (202) 828-5087 / 5094

*Counsel for the
AMERICAN WIRE PRODUCERS ASSOCIATION*

November 27, 2001

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INDEX OF EXHIBITS

- Exhibit A HANDY & HARMAN SPECIALTY WIRE GROUP Brochure: “Forming Wire”
- Exhibit B HANDY & HARMAN SPECIALTY WIRE GROUP Brochure: “Spring Wire”
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Get The Job Done!”

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BEFORE THE OFFICE OF THE U.S. TRADE REPRESENTATIVE

**COMMENTS ON BEHALF OF THE AWP
TO EXCLUSION REQUESTS FOR STAINLESS STEEL WIRE**

SECTION 201 INVESTIGATION: STEEL

EXHIBIT A

NOVEMBER 27, 2001

PUBLIC VERSION

FORMING WIRE

For a variety of formed wired products including
four slide and similar wire forming equipment

■ **Recommended Grades:**

302, 304, 304L, 305, 316, 316L, 430, Nitronic® 32,
Nitronic 50, Monel® 400 and Inconel® 600

■ **Sizes:**

.006" - .250"

■ **Tempers:**

Annealed, 1/4 hard, 1/2 hard, 3/4 hard,
full hard

■ **Packaging:**

Coils, spools, tubular carriers, reels

■ **Finish:**

Matte, as drawn, bright, clean



HH Handy & Harman
Specialty Wire Group

Maryland Specialty Wire ■ 800.444.7938 ■ Fax 410.785.4835

Willing B Wire ■ 800.222.0088 ■ Fax 609.877.2761

Internet: mdspecwire@aol.com

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CERTIFIED

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**COMMENTS ON BEHALF OF THE AWP
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SPRING WIRE

For use in instruments, appliances, spray valves and automotive applications.

■ **Recommended Grades:**

Types 302, 304, 316, 17-7PH®, MP35N®, Nitronic 50®, Inconel® alloy 600 and Inconel® alloy X750.

■ **Sizes:**

.006" to .500".

■ **Temper:**

Hard drawn—see *tensile strength levels chart on reverse side of this sheet.*

■ **Coatings:**

Wet drawn bright or dry drawn soap coatings are available to meet specific requirements.

■ **Packaging:**

Eight inch inside diameter coils, two to 25 pounds; 12" I.D. coils, 15 to 50 pounds; 16" I.D. coils, 30 to 125 pounds; 22" I.D. coils, 100 to 750 pounds; and 500 and 700 pound returnable spools.



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TENSILE STRENGTH

STAINLESS STEEL SPRING WIRE

DIAMETER, INCH	TENSILE STRENGTH, PSI						
	302 AND 304		305 AND	17-7PH CONDITION C		17-7PH CONDITION CH900	
	MINIMUM	MAXIMUM	316 MINIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
0.009 and smaller	325,000	355,000	245,000	—	—	—	—
0.010	320,000	350,000	245,000	270,000	300,000	320,000	350,000
0.011	318,000	348,000	240,000	270,000	300,000	320,000	350,000
0.012	316,000	346,000	240,000	270,000	300,000	320,000	350,000
0.013	314,000	344,000	240,000	270,000	300,000	320,000	350,000
0.014	312,000	342,000	240,000	270,000	300,000	320,000	350,000
0.015	310,000	340,000	240,000	270,000	300,000	320,000	350,000
0.016	308,000	338,000	235,000	270,000	300,000	320,000	350,000
0.017	306,000	336,000	235,000	270,000	300,000	320,000	350,000
0.018	304,000	334,000	235,000	270,000	300,000	320,000	350,000
0.020	300,000	330,000	235,000	260,000	290,000	320,000	350,000
0.022	296,000	326,000	235,000	260,000	290,000	320,000	350,000
0.024	292,000	322,000	235,000	260,000	290,000	320,000	350,000
0.026	289,000	319,000	235,000	260,000	290,000	320,000	350,000
0.028	286,000	316,000	235,000	260,000	290,000	320,000	350,000
0.032	277,000	307,000	235,000	260,000	290,000	320,000	350,000
0.036	273,000	303,000	235,000	260,000	290,000	320,000	350,000
0.041	269,000	299,000	235,000	260,000	290,000	320,000	350,000
0.047	262,000	292,000	230,000	255,000	285,000	310,000	340,000
0.054	260,000	290,000	225,000	250,000	280,000	305,000	335,000
0.062	255,000	285,000	220,000	242,000	272,000	297,000	327,000
0.072	250,000	280,000	215,000	240,000	270,000	292,000	322,000
0.080	245,000	275,000	210,000	240,000	270,000	292,000	322,000
0.092	240,000	270,000	205,000	227,000	257,000	279,000	307,000
0.105	232,000	262,000	200,000	223,000	253,000	274,000	304,000
0.120	225,000	255,000	195,000	221,000	251,000	272,000	302,000
0.148	210,000	240,000	185,000	211,000	241,000	256,000	286,000
0.162	205,000	235,000	180,000	—	—	—	—
0.177	195,000	225,000	170,000	—	—	—	—

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**COMMENTS ON BEHALF OF THE AWWA
TO EXCLUSION REQUESTS FOR STAINLESS STEEL WIRE**

SECTION 201 INVESTIGATION: STEEL

EXHIBIT C

NOVEMBER 27, 2001

PUBLIC VERSION

WIRELINES THAT GET THE JOB DONE!



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**Maryland
Specialty Wire, Inc.**
A Handy & Harman Company



INTRODUCTION

Maryland Specialty Wire, Inc. is a division of Handy and Harman Specialty Wire Group, and is a leading US manufacturer of stainless steel and nickel based alloy wire used in a variety of industrial products. Applications for these products are widely used in such industries as aerospace, automotive, chemical, construction, food processing, marine, medical, petrochemical and telecommunications. The parent company of Maryland Specialty Wire, Handy and Harman, has a world-wide reputation in the precious metals business with over 125 years of successful operating experience. As a member of the Handy & Harman family of companies, MSW shares the responsibility of Handy & Harman's responsiveness to their customer needs, working closely with their customers all along the line - in initial design, product application and follow-up service. The Wireline products displayed here represent Maryland Specialty Wire's contribution as a source supplier to the petrochemical industry. All products manufactured by MSW carry the quality assurance certification of

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WIRELINES



Maryland Specialty Wire is a stainless steel redraw mill producing corrosion resistant wirelines, slick lines, and tool joints for over twenty-five years. Wire drawing and inspection procedures (including eddy current testing) have been developed to provide superior quality across the entire alloy product line.

For oil, gas, geothermal drilling and other downhole tasks where severe corrosive environments are encountered:

- **Type 316** — Our basic product
 - **XM19** — Higher strength, improved pitting resistance
 - **Alloy 28** — Better corrosion resistance
 - **25-6MO (SUPERLINE MO)** — Optimum intermediate alloy
 - **MP35N** — Top of the line
- Other alloys — available on request*



MSW WIRELINE SPECIFICATIONS

- **Recommended Grades:** Type 316, XM19, ALLOY 28, 25-6MO*, MP35N®
- **Sizes:** .082", .092", .108", .125" (OTHER SIZES AS REQUESTED)
- **Lengths:** 10,000/35,000 feet measured lengths (+500,-0 feet tolerance)
- **Tempers:** 200,000/270,000 psi, depending upon alloy
- **Packaging:** 500 and 1,000 pound non-returnable reels; 1,200# steel returnable reels
- **Alloy chemistry (key elements):**

Alloy	UNS	C	Mn	Cr	Ni	Mo	Cu	N	Co	Ti
316	S31600	.08	2.0	16.0-18.0	10.0-14.0	2.0-3.0	-	-	-	-
XM19	S20910	.06	4.0-6.0	20.5-23.5	11.5-13.5	1.5-3.0	-	.20-.40	-	-
ALLOY 28	N08028	.03	2.5	26.0-28.0	29.5-32.5	3.0-4.0	.6-1.4	-	-	-
25-6MO*	N08926	.02	2.0	19.0-21.0	24.0-26.0	6.0-7.0	0.5-1.5	.15-.25	-	-
MP35N	R30035	.02	.1	19.0-21.0	33.0-37.0	9.0-10.5	-	-	BAL	1.0

*NOTE: 25-6MO, SUPA75®, and GD31MO® have equivalent chemistries

MINIMUM BREAK STRENGTH:

Size	316	XM19	Alloy 28	25-6MO	MP35N
.082"	1100#	1190#	1140#	1175#	1200#
.092"	1400#	1500#	1430#	1475#	1510#
.108"	1880#	2065#	1910#	1950#	2070#
.125"	2500#	2740#	2500#	2510#	2750#

RECOMMENDED SAFE
WORKING LOAD
(60% OF MIN. BREAK STRENGTH):

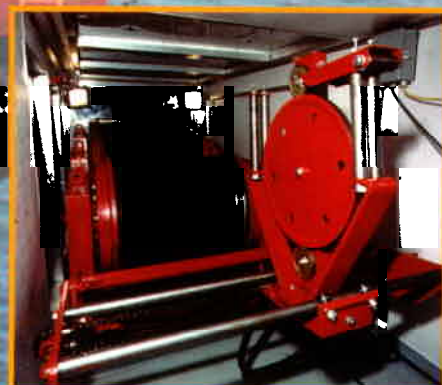
Size	316	XM19	Alloy 28	25-6MO	MP35N
.082"	660#	715#	685#	705#	720#
.092"	840#	900#	860#	885#	905#
.108"	1125#	1240#	1145#	1170#	1240#
.125"	1500#	1645#	1500#	1505#	1650#

MINIMUM SHEAVE DIAMETER (INCHES):

Wire size	Sheave size
.082"	13"
.092"	13"
.108"	15"
.125"	17.5"

DENSITY/CORROSION

Alloy	Density (lb/in ³)	Corrosion (PREN)
316	.285	25
XM19	.285	38
Alloy 28	.290	40
25-6MO	.290	47
MP35N	.309	53



Recognizing that delivery is a critical factor, stocking programs have been implemented for the most popular wireline products — using the Mill Cockeysville, Maryland as the main stocking area and Houston

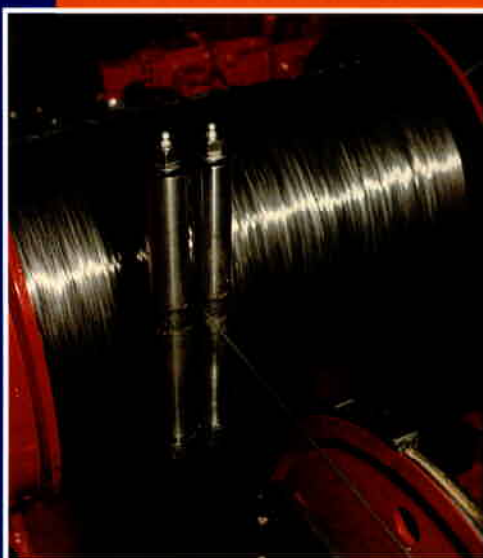


It is recognized that many well
conditions demand improved wireline
corrosion resistance and strength.

Maryland Specialty Wire continues to
examine new and improved alloy
systems to develop alternate alloys

which provide improved performance,
value and reliability.

Just call **1-800-444-7938** for your
specific wireline requirements.



GOOD WIRELINE HANDLING PRACTICES

- Do not drop or damage spools
- Maintain adequate back tension during respooling and winding operations
- Maintain natural curvature of the wire during winding and respooling
- Do not rub on ground or non-rolling sheaves and bearing surfaces
- Do not allow loops, bends or kinks to occur - this can damage or break the line
- Do clean the wireline after use



**Maryland
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100 COCKEYSVILLE ROAD ■ COCKEYSVILLE, MARYLAND 21030-0155
TEL: 800-444-7938 ■ FAX: 410-785-4835
E-mail: sales@mdspecwire.com
www.thomasregister.com/msw